

a scanning unit which two-dimensionally scans said fluorescent screen with said ultraviolet laser light;

said fluorescent screen including for each pixel,

red fluorescent material which emits red light in response to said ultraviolet laser light,

green fluorescent material which emits green light in response to said ultraviolet laser light, and

blue fluorescent material which emits blue light in response to said ultraviolet laser light;

wherein said laser light source is a semiconductor laser device having an active layer made of a GaN material.

³/₄ (Amended). A color laser display apparatus comprising:

a laser light source which emits ultraviolet laser light;

a modulation unit which modulates said ultraviolet laser light;

a display unit which includes a fluorescent screen; and

a scanning unit which two-dimensionally scans said fluorescent screen with said ultraviolet laser light;

said fluorescent screen including for each pixel,

red fluorescent material which emits red light in response to said ultraviolet laser light,

green fluorescent material which emits green light in response to said ultraviolet laser light;

blue fluorescent material which emits blue light in response to said ultraviolet laser light;
and
wherein said laser light source includes,
a semiconductor laser device which has an active layer made of a GaN material so as to
emit excitation laser light, and
a surface emitting semiconductor laser device which has an active layer made of a GaN
material and formed on a substrate, and is excited by the excitation laser light to emit said
ultraviolet laser light.

az 5 (Amended). A color laser display apparatus comprising:
a laser light source which emits ultraviolet laser light;
a modulation unit which modulates said ultraviolet laser light;
a display unit which includes a fluorescent screen; and
a scanning unit which two-dimensionally scans said fluorescent screen with said
ultraviolet laser light;
said fluorescent screen including for each pixel,
red fluorescent material which emits red light in response to said ultraviolet laser light,
green fluorescent material which emits green light in response to said ultraviolet laser
light,
blue fluorescent material which emits blue light in response to said ultraviolet laser light;
and

wherein said laser light source is a fiber laser device including,
an excitation light source which emits excitation light,
an optical fiber doped with at least one rare earth element which emits a laser beam when
excited by the excitation light, where the at least one rare earth element includes Pr^{3+} , and
a wavelength conversion element which converts said laser beam into said ultraviolet
laser light.

6 (Amended). A color laser display apparatus comprising:

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a laser light source which emits ultraviolet laser light;
a modulation unit which modulates said ultraviolet laser light;
a display unit which includes a fluorescent screen; and
a scanning unit which two-dimensionally scans said fluorescent screen with said
ultraviolet laser light;

said fluorescent screen including for each pixel,
red fluorescent material which emits red light in response to said ultraviolet laser light,
green fluorescent material which emits green light in response to said ultraviolet laser
light,
blue fluorescent material which emits blue light in response to said ultraviolet laser light;
and

wherein said red fluorescent material is ZnCdS:Ag , said green fluorescent material is
 ZnS:Cu , and said blue fluorescent material is ZnS:Ag .

Claims 7-9 are added as new claims.

7. A color laser display apparatus comprising:
- a laser light source which emits ultraviolet laser light;
 - a modulation unit which modulates said ultraviolet laser light;
 - a display unit which includes a fluorescent screen; and
 - a scanning unit which two-dimensionally scans said fluorescent screen with said ultraviolet laser light;
- a3 said fluorescent screen including for each pixel,
- red fluorescent material which emits red light in response to said ultraviolet laser light,
 - green fluorescent material which emits green light in response to said ultraviolet laser light, and
 - blue fluorescent material which emits blue light in response to said ultraviolet laser light;
- wherein said scanning unit comprises:
- a first galvanometer for deflecting the ultraviolet laser light; and
 - a polygon mirror for deflecting the ultraviolet laser light in the horizontal direction.
8. A color laser display apparatus according to claim 7, said scanning unit further comprising:
- an electrooptic deflector for correcting irregularity in a raster scan pitch; and
 - relay lenses for condensing and relaying the ultraviolet laser light.

9. A color laser display apparatus comprising:

- a laser light source which emits ultraviolet laser light;
- a modulation unit which modulates said ultraviolet laser light;
- a display unit which includes a fluorescent screen; and
- a scanning unit which two-dimensionally scans said fluorescent screen with said ultraviolet laser light;

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- said fluorescent screen including for each pixel,
 - red fluorescent material which emits red light in response to said ultraviolet laser light,
 - green fluorescent material which emits green light in response to said ultraviolet laser light, and
 - blue fluorescent material which emits blue light in response to said ultraviolet laser light,
- and

wherein the laser light source comprises three semiconductor laser devices for emitting three ultraviolet laser light beams corresponding to three primary colors red, green and blue, respectively.
